

Amendments to the Specification:

Please replace the paragraph beginning at page 10, line 6 with the following amended paragraph:

FIG. 2A is a schematic of the device of FIG. 1 in a fluid system;

Please replace the paragraph beginning at page 10, line 7 with the following amended paragraph:

FIG. ~~[[2A]]~~2B is an illustration of the ~~device~~ a fluid system of FIG. 2A with command signals connected to components of the fluid system;

Please replace the paragraph beginning at page 10, line 13 with the following amended paragraph:

~~FIG. 5 illustrates~~ FIGS. 5A and 5B illustrate a sequence of tests based on the fluid system of FIG. 3, wherein FIG. 5A illustrates a first configuration and FIG. 5B illustrates a second configuration;

Please replace the paragraph beginning at page 10, line 20 with the following amended paragraph:

FIG~~[[,]]~~. 6E illustrates the failures identified by the tests of FIGS. 6A-6D.

Please replace the paragraph beginning at page 12, line 1 with the following amended paragraph:

Turning now to FIG. [[2]]2A, a fluid system **18** is comprised of a controllable pressure source **30**, at least one fluid path section **32** having first and second ends **34** , **36** and at least one fluid connection means **40** . The fluid system is filled with fluid **16** and monitored by the device **10** for monitoring pressure. The controllable pressure source **30** creates a source pressure on the fluid **16** in response to a pressure command signal **38** from the control means **14** . The fluid connection means **40** has a plurality of ports **42** , **44** , **46** , **48** for interconnection with the system and is capable of assuming a first position (represented by the dotted line **50** ) where fluid flows between a first port **44** , **46** , **48** and the second port **42** and a second position (not illustrated) in which fluid does not flow between any of the first ports **44** , **46** , **48** and the second port **42**. The system **18** is interconnected with one port **42** of the fluid connection means **40** connected to an end **34** of the fluid path section **32** and the controllable pressure source **30** connected to the second end **36** of the fluid path section **32**. The fluid connection means **40** is responsive to a connect command signal **52** to assume the first position and a disconnect command signal **54** to assume the second position. These signals may be implemented as separate levels on one signal line, encodings on a line, distinct signals or other means including a combination of the above implementations as is known to one skilled in the relevant art. The monitoring device **12** is placed in communication with the fluid **16** in the fluid path section **32** and sends the measured pressure signal **20** for comparing the measured pressure to the source pressure. The control means **14** does the comparison and generates an error message **22** if a difference between the measured pressure and the source pressure exceeds a predetermined value.

Please replace the paragraph beginning at page 12, line 26 with the following amended paragraph:

As illustrated in FIG. ~~[[2A]]~~2B, the control means **14** is further for sending the connect command signal **52** and disconnect command signal **54** to the at least one fluid connection means **40** for controlling the connection means **40** to assume the first and second positions. In addition, the control means **14** is further for sending the pressure command signal **38** to the controllable pressure source **30** to cause the controllable pressure source **30** to generate the source pressure.

Please replace the paragraph beginning at page 17, line 32 with the following amended paragraph:

A preferred system, as shown in FIG. ~~[[5]]~~5A, comprises a first fluid connection means **140** having at least a first port **144** and a second port **142**, a second fluid connection means **140'** having at least a first port **144'** and a second port **142'**, a first fluid path section **132** and a controllable pressure source **130**. The controllable pressure source **130** is connected to the first port **144** of the first fluid connection means **140** and the second port **142** of the first fluid connection means **140** is connected to a first end **134** of the first fluid path section **132**. The second end **136** of the first fluid path section **132** is connected to the first port **144'** of the second connection means **140'**. The method further comprises sending at least one connect command signal **152** to the first fluid connection means **140** to place the first connection means **140** in the first, open position wherein fluid can flow between the first and second ports **144** , **142**. And sending at least one disconnect command signal **154'** to the second fluid connection means **140'** to place the second fluid connection means **140'** in the second, closed, position. This arrangement of the fluid connection means **140**, **140'** creates a closed system that, in the absence of leaks, should maintain an applied pressure. The control means **14** sends a pressure command signal **138** to the controllable pressure source **130** to generate a predetermined source pressure. The control means **14** compares the measured pressure to the predetermined source pressure and reports an establishment error if the difference is greater than a first allowed amount. If no establishment error occurs, the method preferably further waits a predetermined length of time and compares the current measured pressure to the predetermined source pressure again. If the decay in pressure is greater than a second allowed amount, a leak error is reported.

Please replace the paragraph beginning at page 19, line 3 with the following amended paragraph:

In particular, after testing the fluid system as depicted in FIG. [[5]]5A, the method is preferably applied to a fluid system, shown in FIG. [[5A]]5B, that is a variation on the tested system. The system comprises a first fluid path section **132** connected between a second port **144** of a first fluid connection means and a first port **142** of a second fluid connection **140'** means. The device **10** for monitoring measured pressure measures at the first fluid path **132**. A first controllable pressure source **130'** is connected to the second port **142'** of the second fluid connection means **140'**. The sequence of steps in the method comprise sending disconnect command signals **154** from the control means **14** to the first fluid connection means **140** to cause it to assume the second position and connect command signals **152** to the second fluid connection means **140'** to assume a first position in which fluid flows between the first fluid path **132** and the first controllable pressure source **130'**. The control means **14** then sends a pressure command signal **138'** to set the source pressure. Finally, the control means monitors the signal from the pressure monitor and identifies non-leaking components based on a stability of the measured pressure over time. If the second method indicates a leaking component, while the first method did not, the control means **14** can suggest that the components common to the two methods (port **142** of the first fluid connection means **140**, the fluid path section **132** and port **144'** of the second fluid connect ion means) are non-leaking.